

ROLL-BOND SOLAR THERMAL COLLECTORS



? What is?

These high-efficiency solar thermal collectors feature aluminium roll-bond absorbers with inner anti-corrosive coatings and an outer optical solar-selective coating directly coated on roll bond front side. Designed for façade installation, they maximize heat capture and durability, outperforming standard roll-bond absorbers.

🎯 Challenge

Traditional solar thermal collectors face corrosion in harsh conditions and reduced efficiency due to welding spots between copper absorber tubes and optical selective coating on aluminium sheet, especially in vertical façade setups.

💡 Solution

Our roll-bond solar thermal collectors use advanced inside corrosion resistant coatings which allow higher long-term stability than standard aluminium roll bond collectors and optical selective coating directly applied to roll-bond front side enhance corrosion resistance and heat transfer, ensuring reliable performance in any environment.

➡ Key Benefits



Resists corrosion

Resists corrosion for longer operation



Capture solar energy

Captures over 96% of solar energy with optical selective coating



Improves heat

Heat transfer without welding barriers



Maintains stable

Wave-free surfaces for façades

➡ Target Users

- ✓ Solar technology providers
- ✓ Building façade installers
- ✓ Energy system integrators

➡ Next Steps

- ✓ Development of the technology through further research and commercialization.



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